

### Abstract

The present invention provides a ceramic honeycomb filter, wherein a value obtained by dividing the cube of a porosity (%) in the partition walls having the catalyst(the  
5 porosity is a proportion of the volume of the total pores contained in the partition walls, to the total volume of the partition walls including the total pores) by a mean diameter ( $\mu\text{m}$ ) of all pores, is  $0.8 \times 10^4$  or less, and a porosity (%) of pores of 100  $\mu\text{m}$  or above in diameter in the partition  
10 walls(the porosity is a proportion of the volume of the pores of 100  $\mu\text{m}$  or above in diameter, to the total volume of the partition walls including the total pores) is 5% or less. With this ceramic honeycomb filter, particulate matter such as soot, deposited on the partition walls can be treated at  
15 low temperatures.